Nitrogen Index 1989

BRITISH TELECOM

NITROGEN
1989

LIST OF CONTENTS

Issue number 177 January-February 1989	Page
Urea market review for 1988	11
Restructuring in Spain	16
The nitric acid heat recovery train	21
Improved Incitec process in Alberta plant	29

Issue number 178 March-April 1989	
Prospects in the Arab Gulf	10
Growth in Pakistan	14
NPKS contractor profiles	19
LCA: Breaking the mould at Severnside	30
Debottlenecking at Phulpur	40

Issue number 179 May-June 1989	
United States industry depression	11
ICI licenses process to Chiyoda	15
New Hydrocarbon reforming process	16
Computer control system for ammonia manufacture	20

Issue number 180 July-August 1989	Page
Prospects in Trinidad and Tobago	11
Urea vs AN in Western Europe	15
Removing carbon oxides from ammonia synthesis gas	20
Technical trends	32

Issue number 181 September-October 1989	
Outlook for Southeast Asia	10
Future developments in nitrogen fertilizer capacity worldwide	16
Turbocompressors for the nitrogen industry	23
Flexible design for ammonia plant	31

Issue number 182 November-December 1989	
The impact of environmental legislation	13
Turbocompressors for the fixed nitrogen industry II	19
Statistical supplement	33

COUNTRY INDEX

The issue number is followed by the page number

Bangladesh
Production surges 177 (6)

Brazil
Production of nitrogen fertilizers 181 (6)

China
Buying to slow 177 (6)
Effects of political upheaval on fertilizer demand 177 (3)
Urea imports surge 178 (6)

Greece
Ammonia imports 180 (7)

India
Production increase slows 178 (6)
Prospects for the nitrogen fertilizer industry 181 (20)

Indonesia
Growth in nitrogen fertilizer output 181 (12)

Kuwait
Production growth 178 (11)
Urea exports stable 180 (6)

Malaysia
Development of nitrogen fertilizer industry 181 (10)

Morocco
Ammonia imports 179 (6)

Pakistan
Recent growth of the nitrogen fertilizer industry 178 (4)

Philippines
Development of the nitrogen industry 181 (10)

Qatar
Development of the ammonia industry 178 (12)

Saudi Arabia
Growth in nitrogen fertilizer production 178 (11)

Spain
Ammonia imports 179 (7)
Industry restructures 177 (16)

Thailand
Nitrogen fertilizer consumption 181 (13)

Trinidad and Tobago
Future growth in nitrogen sector 180 (11)

Turkey
Fertilizer consumption down 177 (6)
Urea imports 180 (6)

United Kingdom
Nitrate controls announced 181 (6)

United States
Nitrogen market depression 179 (11)

SUBJECT INDEX

Ammonia
Autothermal reforming in Soviet Union plant 175 (17)
Flexible design for plants 181 (31)
Greek imports in 1988 180 (7)
Double tier computer controlling for ammonia plants 179 (20)
Kuwaiti production and imports in 1988 180 (6)
Low energy processes 182 (25)
LCA process licensed to Chiyoda 179 (15)
Moroccan imports 179 (6)
Production and consumption in the Arab Gulf 178 (11)

Revamping IFFCO plant 178 (40)
Saudi Arabian production and imports 181 (6)
Spanish production and imports 177 (16-19)
Statistics 1986-1988 182 (33-36)
Trinidadian production and exports 180 (11-13)
United States production, consumption and imports 179 (11-12)

Ammonium sulphate
Granulation 177 (21)
Consumption in Southeast Asia 181 (11)

Ammonium nitrate
World capacity 181 (7)
Market position in Western Europe 180 (15)

Carbon oxides
Removal from synthesis gas 180 (20)

Catalysts
For removal of NO_x 180 (32)

Granulation
Ammonium sulphate 177 (21)

LCA process
Licensed to Chiyoda 179 (15)
Review of 178 (30)

Natural gas
Market in Western Europe 182 (3)

Nitrate pollution
Measures to curb taken in Western Europe 182 (13)

Nitric acid
Turbocompressors for plants 182 (19)
Heat recovery train in nitric acid plants 177 (25)

Nitrogen gas
On-site generators

Nitrogen fertilizers
Statistics 1987/88 179 (25)

NO_x
New catalyst to reduce emissions 180 (32)
Removal from synthesis gas 180 (20)

Synthesis gas
Removal of NO_x 180 (20)
Autothermal reforming in the Soviet Union 179 (16)

Urea
Chinese imports 177 (6)
Consumption in Southeast Asia 181 (10)
Market review in 1988 177 (11)
Market position in Western Europe 180 (15)
Production in Indonesia 181 (12)
Protectionism in market 177 (3)

BRITISH SULPHUR
CONSULTANTS AND PUBLISHERS IN FERTILIZERS AND CHEMICALS